

USSN 10/509,298

3

Amendments to the Claims

Please amend claims 1-17, without prejudice or disclaimer, as indicated in the following Listing of Claims.

*Listing of Claims*

1. (Currently amended) A Steering- steering column module for a motor vehicle, the vehicle having an on-board vehicle electrical system and a steering column relative to which a steering wheel may rotate so as to exhibit a rotational angle, with the steering column module comprising:  
a steering angle sensor (13), which is inserted into contained within a module housing (1, 2), said module housing configured to be mounted on, and fixed with respect to, said steering column, said steering angle sensor comprising a printed circuit board fixed within said module housing and whose rotor assigned to a steering column interacts with at least one stationary measuring wheel (37) mounted in a wheel housing fixed on the circuit board, said measuring wheel positioned and configured to rotate in response to a change in the rotational angle of said steering wheel, at which, as a stator, and said circuit board comprising a plurality of electronic measuring sensors (22) that are connected to the on-board vehicle electrical system via a the central printed-circuit board (6) of the steering column module and that are configured to detect changes in the angle of the steering column, characterized in that the measuring sensors (22) are fixed on the printed-circuit board (6) and the one or more said measuring wheels (37) are mounted in a housing (38) fixed on the printed-circuit board (6).
2. (Currently amended) A Steering- steering column module according to claim 1, characterized in that wherein the rotor and the said at least one measuring wheel (37) are is formed as a gears.
3. (Currently amended) A Steering- steering column module according to claim 2, characterized in that wherein a first measuring gear wheel (27) drives a second

USSN 10/509,298

4

measuring gear-wheel (31) with the intermediate connection of an intermediate wheel (29), wherein said measuring sensors (22) are assigned to both measuring gearwheels (27, 31).

4. (Currently amended) A Steering- steering column module according to claim 2 or 3, characterized in that wherein the first measuring gear-wheel (27) and the second measuring gear-wheel (31) each have a measuring magnet ring (28, 30), which is inserted at the ends and which interacts with the measuring sensors (22) formed as stray field sensors.

5. (Currently amended) A Steering- steering column module according to claim 4, characterized in that wherein each of the measuring gear-wheels (27, 31) comprises a shielding plate for the measuring magnet ring (28, 30).

6. (Currently amended) A Steering- steering column module according to one of claims 1 to 5 claim 1, characterized in that wherein the measuring sensors (22) extend into the wheel housing (38) in a position aligned with the measuring gear-wheels (27, 31).

7. (Currently amended) A Steering- steering column module according to one of claims 1 to 6 claim 1, characterized in that wherein a tolerance compensation device (14) arranged in the housing (38) is provided so as to cause between the rotor and the first measuring gear-wheel (27) driven by the rotor to rotate in response to a change in the rotational angle of said steering wheel.

8. (Currently amended) A Steering- steering column module according to claim 7, characterized in that wherein the tolerance compensation device (14) comprises a compensation gear (23), which connects in a spring-loaded way so as to provide a mechanical coupling between said steering wheel and said to both the rotor and also to the assigned first measuring gear-wheel (27).

USSN 10/509,298

5

9. (Currently amended) ~~A Steering- steering~~ steering column module according to claim 8, ~~characterized in that wherein~~ the compensation gear (23) is mounted in a cage (24) exposing its gearing in some regions and one end of this cage engages a tension spring (25), whose other end is fixed to the housing (38).
10. (Currently amended) ~~A Steering- steering~~ steering column module according to claim 8, ~~characterized in that wherein~~ the housing (38) assembled from a cover (15) and also a base (16) supports the cage (24) of the compensation gear (23), the two measuring gear wheels (27, 31), as well as the intermediate wheel (30).
11. (Currently amended) ~~A Steering- steering~~ steering column module according to claim 10, ~~characterized in that wherein~~ the cover (15) has a support bolt (35) for the intermediate wheel (30), whose free end engages in a corresponding hole (36) of the base (16).
12. (Currently amended) ~~A Steering- steering~~ steering column module according to claim 10 or 11, ~~characterized in that wherein~~ guide holes (33), which are spaced apart from each other for receiving support axles (32) for the two measuring gear wheels (27, 31) and which engage in corresponding openings (34) of the base (16), are formed in the cover (15).
13. (Currently amended) ~~A Steering- steering~~ steering column module according to one of claims 10 to 12 claim 1, ~~characterized in that wherein~~ the wheel housing cover (15) has clip arms (19) for attaching the wheel housing to the printed-circuit board (6).
14. (Currently amended) Steering column module according to claim 10, ~~characterized in that wherein~~ the base (16) is provided in the region of the measuring magnet rings (28, 30) of the measuring gear wheels (27, 31) with two recesses (21), which are offset relative to each other and which project through the measuring sensors (22).
15. (Currently amended) Steering column module according to one of ~~claims 1 to 14~~ claim 1, ~~characterized in that wherein~~ the measuring sensors (22) for signal evaluation are coupled with the on-board vehicle computer via the printed-circuit board (6).

USSN 10/509,298

6

16. (Currently amended) Steering column module according to claim 15, ~~characterized in that wherein~~ the printed-circuit board (6) comprises a bus interface for connecting to the on-board vehicle computer.

17. (Currently amended) Steering column module according to ~~one of~~ ~~claims 1 to 8~~ claim 1, ~~characterized in that further comprising the rotor is assigned to a cover~~ spanning a flat spiral spring in a module housing top part (4).